



PAGES
PANGAEA GLOBAL EVENTS

Final Program

OPTICS2023

2nd International Conference and Expo on
Lasers, Optics & Photonics

October 09-10, 2023 | Barcelona, Spain



Day-1 | October 09, 2023

09:00-09:30		On Spot Registrations
Chair		Edik U. Rafailov, Aston University, United Kingdom
Co-Chair		Anna Backerra, Director Institute for Theoretical and Applied Micro Magnetics, The Netherlands
09:30-10:10	P	<p>Title: MOCVD Selective Area Growth of InGaAs/AlGaAs/GaAs Using Shadow Mask for PIC</p> <hr/> <p>Akihiko Kasukawa, Furukawa Electric Co., Ltd, Japan</p>
10:10-10:50	P	<p>Title: Progress of VCSEL Photonics for Datacenter Networks and Sensing</p> <hr/> <p>Fumio Koyama, Tokyo Institute of Technology, Japan</p>
10:50-11:05		Refreshment Break
11:05-11:45	P	<p>Title: Progress in Quantum Dot based Technology and Devices: Physics and Applications</p> <hr/> <p>Edik U. Rafailov, Aston University, United Kingdom</p>
11:45-12:25	P	<p>Title: Quantum Dot Coherent Comb Laser Enable Millimeter-Wave Over Fiber Wireless Transmission Systems</p> <hr/> <p>Zhenguo Lu, National Research Council, Canada</p>
12:25-13:05	P	<p>Title: Bond-Selective Microscopy: A New Window for Life Science and Material Analysis</p> <hr/> <p>Ji-Xin Cheng, Moustakas Chair Professor, Photonics Center, Boston University, USA</p>
13:05-14:05		Group Photo
		Lunch
14:05-14:35	K	<p>Title: Dual Laser Beam Solution for the Welding of Aluminium and Copper: Applying Artificial Intelligence Techniques for the Automated Process Monitoring</p> <hr/> <p>Benat Arejita, Co-Founder-Software & Firmware Electronic and Opto-Mechanic Engineering EXOM, Spain</p>
14:35-15:05	K	<p>Title: Coupled Aperture Mini-Arrays of Oxide-Confined VCSELs with a Strong Intensity Modulation in a Frequency Range 20–100 GHz</p> <hr/> <p>Vitaly Shchukin, Chief Scientific Officer-VI Systems GmbH, Germany</p>

15:05-15:35	K	Title: Electrically Driven and Tunable Single Photon Sources for Seamless PIC Integration
		Benito Allen , Head-Quantum Nano-optoelectronics Laboratory, Spain
15:35-15:50		Refreshment Break
Scientific Sessions		Raman Laser Applications, Optoelectronic Devices, Quantum & Terahertz Photonics
Session Chair		Zhenguo Lu, National Research Council, Canada
15:50-16:15	I	Title: Process Monitoring of Laser Beam Powder Bed Fusion; Melt Pool, Surface Morphology, and Defects Formation
		Toshi-Taka Ikeshoji , Technology Research Association for Future Additive Manufacturing, Japan
16:15-16:40	I	Title: Tm:YLF/KGW Raman Lasers for SWIR Applications
		Salman Noach , Jerusalem College of Technology, Israel
16:40-17:05	I	Title: Passive Symmetry Breaking of the Space–Time Propagation in Cavity Dissipative Solitons
		Avi Peer , Bar Ilan University, Israel
17:05-17:30	I	Title: Octave-Spanning Integrated Soliton Frequency Combs Generation with Simple Dual-Mode Microresonators
		Haizhong Weng , Trinity College Dublin, Ireland
17:30-17:55	I	Title: Sensitive, Fast, and Inexpensive Millimeter/Terahertz Wave Upconversion Imaging Using Glow Discharge Plasma Devices as Detectors
		Natan Kopeika , Ben-Gurion University, Israel
PO1	Poster	Title: Applications of Hyperspectral Imaging Technique for Monitoring Tissue Oxygenation
		Mihaela Antonina Calin , National Institute of Research and Development for Optoelectronics, Romania
PO2	Poster	Title: Computer-Assisted Method for Quantification of Melanin Content in Common Skin Nevi Based on Hyperspectral Imaging Technique
		Dragos Manea , National Institute of Research and Development for Optoelectronics, Romania
Closing the Conference for Day 1		

Day 02 | October 10, 2023

Chair		Edik U. Rafailov, Aston University, United Kingdom
Co-Chair		Anna Backerra, Director Institute for Theoretical and Applied Micro Magnetics, The Netherlands
09:30-10:10	P	<p>Title: Lasers, Optics and Photonics for Biomedicine—A Translational Story</p> <hr/> <p>Daniel Farkas, University of Southern California, USA</p>
10:10-10:50	P	<p>Title: Moving the Photonics Operation Temperatures Toward the Highest Temperature of Electronics with InAs/GaAs Quantum Dot Platform including DFB Lasers, Comb Lasers and SOAs</p> <hr/> <p>Alexey Kovsh, CEO and Co-founder, Alfalume Inc, USA</p>
10:50-11:05		Refreshment Break
11:05-11:35	K	<p>Title: The Principle of the Laser According to Twin Physics</p> <hr/> <p>Anna Backerra, Director Institute for Theoretical and Applied Micro Magnetics, The Netherlands</p>
11:35-12:05	K	<p>Title: Manufacturing and Testing of All-Silica Fibers Resistant to UV and Gamma Radiation</p> <hr/> <p>Andrey Grishchenko, Head of R&D at CeramOptec SIA, Latvia</p>
12:05-12:35	K	<p>Title: Beam Steering with the Enhanced Hyperprism</p> <hr/> <p>Tatjana Gric, Semiconductor Physics Institute, Center for Physical Sciences and Technology, Lithuania</p>
12:35-13:05	K	<p>Title: Dual-Beam Delay-Encoded Doppler Optical Coherence Tomography for Retinal Blood Flow Measurement</p> <hr/> <p>Jun Zhang, Sun Yat-Sen University, China</p>
13:05-14:05		Group Photo Lunch
14:05-14:35	K	<p>Title: Quantum Mechanic Device for a Fusion Reactor</p> <hr/> <p>Friedrich Grimm, MD at RES Institute, Germany</p>
14:35-15:05	K	<p>Title: Unpolarized Light: Poincaré Sphere Engineering - From Natural Light Via Quantum Optics to Applications</p> <hr/> <p>Wolfgang Elsaesser, Darmstadt University of Technology, Germany</p>
15:05-15:35	K	<p>Title: Photonic Crystal Surface Emitting Lasers</p> <hr/> <p>Richard Hogg, University of Glasgow, United Kingdom</p>

15:35-15:50		Refreshment Break
Scientific Sessions		Optical & Laser Beam Techniques, Laser Applications, Quantum Computing, Optical Imaging Systems and Machine Vision
Session Chair		Daniel Farkas , Chairman and CEO-Acceleritas Corporation, USA
15:50-16:15	I	Title: Squeezing-Enhanced Raman Spectroscopy Avi Peer , Bar Ilan University, Israel
16:15-16:40	I	Title: An Integrable Optical Imaging Approach to Overcome Kit-Specificity in Lateral Flow Diagnostics Ilgim Efeturk , Optica Women Scholar 2022, İzmir Institute of Technology, Türkiye
16:40-17:05	I	Title: Plasmon-Assisted Hot Electron Generation in Gold-Coated Inverted Silicon Pyramid Arrays Luis Alberto Pérez , Institute of Materials Science, Spain
17:05-17:30	I	Title: Laser Performance and Design for Low Noise Trapped-Ion Quantum Computing Matthew Bohn , Fellow at Quantinuum, USA
17:30-17:55	I	Title: Shining Light on Cancer: Autofluorescence Imaging and Optical Techniques for Early Cancer Detection Abbas Habibalahi , Graduate School of Biomedical Engineering, Australia
17:55-18:20	I	Title: Enhancing the Temperature Sensing Property of a $\text{Ca}_{0.79-x}\text{Bi}_x\text{Er}_{0.01}\text{Yb}_{0.2}\text{MoO}_4$ Phosphor Via Local Symmetry Distortion and Reduction in Non-Radiative Channels Sachin Singh , Banaras Hindu University, India
Closing the Conference for Day 2		



Next Event

3rd International Conference and Expo on
Lasers, Optics & Photonics
October 17-19, 2024 | Edinburgh, UK

